

## Design change to R2S turbocharger

### VW Crafter and MAN TGE – 2.0 TDI engines

In vehicles equipped with 2.0 TDI engines used in the VW Crafter and MAN TGE, a design change has been introduced to the EGR branch in the exhaust manifold (see Fig. 1). The older version of the turbocharger has been discontinued – only the new version of the R2S turbocharger is currently available.

If the new version of the turbocharger is installed in a vehicle where the older version was previously fitted, additional mounting components are required. These components are not included with the turbocharger and must be ordered separately.

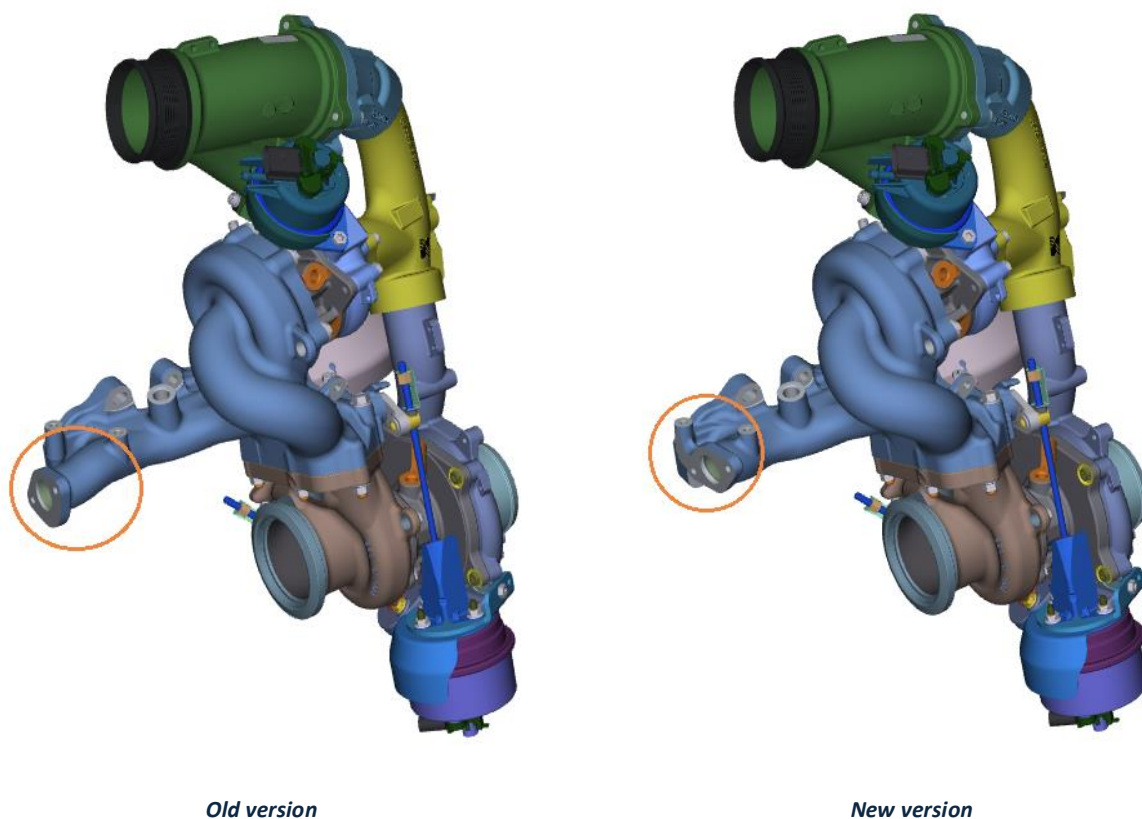


Fig. 1. Comparison of system versions (old / new) – the difference in the EGR branch area is marked with a circle.

Engines and turbochargers affected by the change

Version	Vehicle	Engine Code	Production Date	R2S System BW PN's	R2S System VW PN's	R2S System MAN PN's	HP Stage BW PN's	HP Stage VW PN's	HP Stage MAN PN's
Old	VW Crafter/ MAN TGE 130 kW	DAVA	until 14.05.2017	10009700227	03N145703K	65.09100-6000	-	-	-
New	VW Crafter/ MAN TGE 130 kW	DAVA	from 15.05.2017	10009700225/-0238 10009700277/-0313 10009700358/-0359 10009700377/-0378 10009700381/-0382 10009700384/-0385	03N145703L 03N145703R 03N145703T 03N145704 03N145704E 03N145704K	65.09100-6002 65.09100-6007 65.09100-6008	16359710024 16359710054	03N198701M 03N145713	65.09399-6002 65.09100-6010

### Required additional mounting components (OEM part numbers)

The part numbers listed below apply to the components required to adapt the new version of the turbocharger to the older manifold/EGR configuration. We recommend verifying the correct selection by VIN (depending on the vehicle version and gearbox).

Part	Quantity	VW Crafter (manual transmission)	VW Crafter (automatic transmission)
Plate (item 5)	1	03N145811B	03N145811B
Flanged bolt M6x8 (item 6)	2	N10688402	N10688402
Gasket (items 9 and 16)	2	03L131547P	03L131547P
Connecting pipe (item 10)	1	04L131521BF	04L131521BG
Hex socket screw M8x20 (item 12)	2	N91026802	N91026802
Hex socket screw M8x22 (item 13)	2	N91046101	N91046101
Part	Quantity	MAN TGE (automatic transmission)	
Plate (item 5)	1	65.08120-0001	
Flanged bolt M6x8 (item 6)	2	65.90405-0135	
Gasket (items 9 and 16)	2	65.08901-0002	
Connecting pipe (item 10)	1	65.08153-0013	
Hex socket screw M8x20 (item 12)	2	65.90030-0028	
Hex socket screw M8x22 (item 13)	2	65.90030-0038	

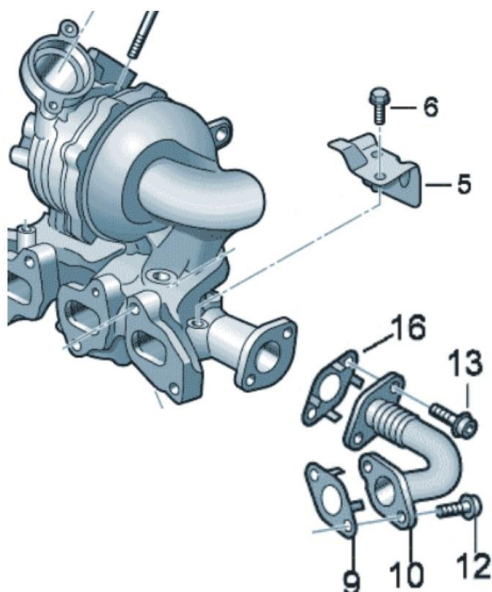


Fig. 2. Diagram of the adapter components required for installation (positions: 5, 6, 9, 10, 12, 13, 16).

## Recommendations

- Verify the vehicle variant (model and gearbox) before installation.
- Treat part numbers as reference only – we recommend confirming the correct selection by VIN.
- Mounting components must be ordered separately (OE / parts supplier) – they are not included in the turbocharger kit.

Source of drawings and data: BORGWARNER manufacturer technical bulletin (Info No. S02B2023, 22.02.2023)